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DERWENT-ACC-NO: 1999-182216

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TITLE: Image scanning apparatus e.g. for facsimile apparatus

INVENTOR: OHMORI, M

PATENT-ASSIGNEE: RICOH KK (RICO)

PRIORITY-DATA: 1997JP-0224467 (August 7, 1997)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <u>JP 3477042 B2</u>	December 10, 2003		013	H04N001/413
<input type="checkbox"/> <u>DE 19835636 A1</u>	March 11, 1999		020	H04N001/417
<input type="checkbox"/> <u>JP 11055530 A</u>	February 26, 1999		012	H04N001/413
<input type="checkbox"/> <u>KR 99023386 A</u>	March 25, 1999		000	H04N001/387
<input type="checkbox"/> <u>US 6160640 A</u>	December 12, 2000		000	H04N001/04
<input type="checkbox"/> <u>DE 19835636 C2</u>	November 15, 2001		000	H04N001/417
<input type="checkbox"/> <u>KR 301714 B</u>	September 6, 2001		000	H04N001/387

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 3477042B2	August 7, 1997	1997JP-0224467	
JP 3477042B2		JP 11055530	Previous Publ.
DE 19835636A1	August 6, 1998	1998DE-1035636	
JP 11055530A	August 7, 1997	1997JP-0224467	
KR 99023386A	August 5, 1998	1998KR-0031908	
US 6160640A	July 31, 1998	1998US-0127175	
DE 19835636C2	August 6, 1998	1998DE-1035636	
KR 301714B	August 5, 1998	1998KR-0031908	
KR 301714B		KR 99023386	Previous Publ.

INT-CL (IPC): H04 N 1/04; H04 N 1/387; H04 N 1/413; H04 N 1/417

ABSTRACTED-PUB-NO: DE 19835636A

BASIC-ABSTRACT:

NOVELTY - The image scanning apparatus includes two scanners (3,4) for scanning two

pages on a single line basis. Two synthesizing units (5) output synthesized image data (SB) by outputting alternating images from both scanners.

DETAILED DESCRIPTION - The image scanning apparatus further includes a line memory (8) and a template forming unit (10) which extracts reference pixels with a predetermined position to the actual pixel. A coding unit (11) codes a pixel value of the actual pixel and a coding operation according to an arithmetic coding method is carried out for outputting the synthesized image data. A prediction of the pixel value of the actual pixel is carried out using the reference pixel.

An INDEPENDENT CLAIM is also included for an image data output apparatus.

USE - E.g. for facsimile apparatus, image filing apparatus, copy machine.

ADVANTAGE - Compresses, codes, decompresses and decodes efficiently image data with minimum hardware capacity

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of a facsimile apparatus.

facsimile apparatus 1

scanning units 3,4

synthesizing unit 5

line memory 8

template forming unit 10

ABSTRACTED-PUB-NO: US 6160640A

EQUIVALENT-ABSTRACTS:

NOVELTY - The image scanning apparatus includes two scanners (3,4) for scanning two pages on a single line basis. Two synthesizing units (5) output synthesized image data (SB) by outputting alternating images from both scanners.

DETAILED DESCRIPTION - The image scanning apparatus further includes a line memory (8) and a template forming unit (10) which extracts reference pixels with a predetermined position to the actual pixel. A coding unit (11) codes a pixel value of the actual pixel and a coding operation according to an arithmetic coding method is carried out for outputting the synthesized image data. A prediction of the pixel value of the actual pixel is carried out using the reference pixel.

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facsimile apparatus 1